

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)					February 2002				
BUDGET ACTIVITY 2 - Applied Research			PE NUMBER AND TITLE 0602623A - JOINT SERVICE SMALL ARMS PROGRAM				PROJECT H21		
COST (In Thousands)			FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate
H21	JT SVC SA PROG (JSSAP)		5223	5560	5812	5891	6208	6411	6720
<p><u>A. Mission Description and Budget Item Justification:</u> This Program Element (PE) investigates and researches key individual and crew-served weapon technologies that will enable the Army Transformation to the Objective Force by enhancing the fighting capabilities and survivability of dismounted battlefield personnel of the Services. Funded efforts include component technologies for: the Objective Crew-Served Weapon (OCSW); the Objective Individual Combat Weapon (OICW) System Enhancements; Light Fighter Lethality; and Advanced Medium Machine Gun Technology. OCSW provides the next generation crew-served weapon with improved combat effectiveness, including bursting munitions technology to provide 500%+ increase in probability of target incapacitation at extended range (to 2000m) with the capability to hit protected personnel targets in defilade (obscured or non-visible), and a 65-75% reduced weight over weapons it replaces. The OCSW is designed to replace selected M2 machine guns, MK19 grenade machine guns and M240 machine guns. The OICW System Enhancement efforts develop lethality-enhancing and cost-reducing technologies for OICW. The Light Fighter Lethality effort provides smart munition based weapon system technologies that will reduce dramatically warfighter system weight (25-50% weapon weight reduction), provide near 100% lethality, and maximize operational utility and survivability for the Objective Force. The Advanced Medium Machine Gun Technology effort provides technologies for a lighter, more effective and versatile replacement for current 7.62mm medium machine guns. The technology enhancement efforts of this PE will assure that the Objective Family of Small Arms (OFSA), the next generation of weapons systems, continues to overmatch the evolving threat and address the needs of the Objective Force. All Joint Service Small Arms Program (JSSAP) efforts are based upon the Joint Service Small Arms Master Plan (JSSAMP), Mission Needs Statements and Operational Requirements Documents of the Services. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan and Project Reliance. The program element contains no duplication with any effort within the Military Departments. This program is primarily managed by the U.S. Army Armament Research, Development and Engineering Center (ARDEC), Picatinny Arsenal, New Jersey. Work in this PE is related to, and fully coordinated with, efforts in PE 0602624A (Weapons and Munitions Technology), and PE 0603607A (Joint Service Small Arms Program). Transition paths have been established in coordination with Product Manager (PM) Small Arms, USMC Director Ground Weapons and US Special Operations Command (SOCOM). This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).</p>									

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<p><u>FY 2001 Accomplishments:</u></p> <ul style="list-style-type: none"> • 2811 - Evaluated OCSW gun launched (burst mode), fully functional, precision airburst fuze with target practice-spotter function (without point detonation and self destruct function); demonstrated Land Warrior interface and thermal module interface of OCSW; conducted initial planning and preparations for OCSW Advanced Technology Demonstration (ATD) technical and troop testing. • 1415 - Tested and evaluated breadboard MEMS safe and arming design, employing Micro Energetic Initiation (MEI) for OICW System Enhancement to confirm feasibility of reduced fuze cost, weight and volume in preparation for technology insertion to OICW development. • 997 - Conceptualized preliminary individual system designs addressing substantial lethality increases for Light Fighter Lethality. <p>Total 5223</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> • 2216 - Conduct User training with virtual OCSW simulator; complete plan and preparations for OCSW ATD technical and troop testing (Early Operational Assessment). • 3344 - Complete design and verification of Light Fighter Lethality critical sub-system designs through constructive simulation, individual and force on force empirical performance, leading to final design selection and fabrication of test hardware. <p>Total 5560</p> <p><u>FY 2003 Planned Program</u></p> <ul style="list-style-type: none"> • 1609 - Complete design and build of Light Fighter Lethality course correcting seeker projectile for potential advances in lethality. • 1808 - Test and evaluate Light Fighter Lethality course correcting seeker projectile performance for improved hit probability and target effects. • 1373 - Conduct Early Operational Assessment/User testing of OCSW. • 1022 - Conduct initial secondary armament interface effort in support of Future Combat System. <p>Total 5812</p>		

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H21**B. Program Change Summary**

	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	5365	5611	5775
Appropriated Value	5415	5611	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-51	0
b. SBIR / STTR	-142	0	0
c. Omnibus or Other Above Threshold Reduction	0	0	0
d. Below Threshold Reprogramming	0	0	0
e. Rescissions	-50	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	37
Current Budget Submit (FY 2003 PB)	5223	5560	5812